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Asp Gly Ala Lys Ile Gly Asn Cys Pro Phe Ser Gln Arg Leu Phe Met 20 25 30

Val Leu Trp Leu Lys Gly Val Thr Phe Asn Val Thr Thr Val Asp Thr 35 40 45

Lys Arg Arg Thr Glu Thr Val Gln Lys Leu Cys Pro Gly Gln Leu 50 55 60

Pro Phe Leu Leu Tyr Gly Thr Glu Val His Thr Asp Thr Asn Lys Ile 65 70 75 80

Glu Glu Phe Leu Glu Ala Val Leu Cys Pro Pro Arg Tyr Pro Lys Leu 85 90 95

Ala Ala Leu Asn Pro Glu Ser Asn Thr Ala Gly Leu Asp Ile Phe Ala 100 105 110

Lys Phe Ser Ala Tyr Ile Lys Asn Ser Asn Pro Ala Leu Asn Asp Asn 115 120 125

Leu Glu Lys Gly Leu Leu Lys Ala Leu Lys Val Leu Asp Asn Tyr Leu 130 135 140

Thr Ser Pro Leu Pro Glu Glu Val Asp Glu Thr Ser Ala Glu Asp Glu 145 150 155 160

Gly Val Ser Gln Arg Lys Phe Leu Asp Gly Asn Glu Leu Thr Leu Ala 165 170 175

Asp Cys Asn Leu Leu Pro Lys Leu His Ile Val Gln Val Val Cys Lys
180 185 190

Lys Tyr Arg Gly Phe Thr Ile Pro Glu Ala Phe Arg Gly Val His Arg 195 200 205

Tyr Leu Ser Asn Ala Tyr Ala Arg Glu Glu Phe Ala Ser Thr Cys Pro 210 215 220 Asp Asp Glu Glu Ile Glu Leu Ala Tyr Glu Gln Val Ala Lys Ala Leu 225 230 235 240

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Phe Val Lys Ala Gly Ser Asp Gly Glu Ser Ile Gly Asn Cys Pro Phe 20 25 30

Cys Gln Arg Leu Phe Met Ile Leu Trp Leu Lys Gly Val Lys Phe Asn 35 40 45

Val Thr Thr Val Asp Met Thr Arg Lys Pro Glu Glu Leu Lys Asp Leu 50 55 60

Ala Pro Gly Thr Asn Pro Pro Phe Leu Val Tyr Asn Lys Glu Leu Lys 70 75 80

Thr Asp Phe Ile Lys Ile Glu Glu Phe Leu Glu Gln Thr Leu Ala Pro 85 90 95

Pro Arg Tyr Pro His Leu Ser Pro Lys Tyr Lys Glu Ser Phe Asp Val 100 105 110

Gly Cys Asn Leu Phe Ala Lys Phe Ser Ala Tyr Ile Lys Asn Thr Gln
115 120 125

Lys Glu Ala Asn Lys Asn Phe Glu Lys Ser Leu Leu Lys Glu Phe Lys 130 135 140

Arg Leu Asp Asp Tyr Leu Asn Thr Pro Leu Leu Asp Glu Ile Asp Pro 145 150 155 160

Asp Ser Ala Gly Glu Pro Pro Val Ser Arg Arg Leu Phe Leu Asp Gly 165 170 175

Asp Gln Leu Thr Leu Ala Asp Cys Ser Leu Leu Pro Lys Leu Asn Ile 180 185 190

Ile Lys Val Ala Ala Lys Lys Tyr Arg Asp Phe Asp Ile Pro Ala Glu
195 200 205

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Pro Phe Thr Leu Thr Thr Val Asp Thr Arg Arg Ser Pro Asp Val Leu 35 40 45

Lys Asp Phe Ala Pro Gly Ser Gln Leu Pro Ile Leu Leu Tyr Asp Ser 50 55 60

Asp Ala Lys Thr Asp Thr Leu Gln Ile Glu Asp Phe Leu Glu Glu Thr 65 70 75 80

Leu Gly Pro Pro Asp Phe Pro Ser Leu Ala Pro Arg Tyr Arg Glu Ser 85 90 95

Asn Thr Ala Gly Asn Asp Val Phe His Lys Phe Ser Ala Phe Ile Lys 100 105 110

Asn Pro Val Pro Ala Gln Asp Glu Ala Leu Tyr Gln Gln Leu Leu Arg

Ala Leu Ala Arg Leu Asp Ser Tyr Leu Arg Ala Pro Leu Glu His Glu 130 135 140

Leu Ala Gly Glu Pro Gln Leu Arg Glu Ser Arg Arg Arg Phe Leu Asp 145 150 155 160

Gly Asp Arg Leu Thr Leu Ala Asp Cys Ser Leu Leu Pro Lys Leu His 165 170 175

Ile Val Asp Thr Val Cys Ala His Phe Arg Gln Ala Pro Ile Pro Ala 180 185 190

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Gly Val Val Phe Ser Val Thr Thr Val Asp Leu Lys Arg Lys Pro Ala 50 55 60

Asp Leu Gln Asn Leu Ala Pro Gly Thr His Pro Pro Phe Ile Thr Phe 65 70 75 80

Asn Ser Glu Val Lys Thr Asp Val Asn Lys Ile Glu Glu Phe Leu Glu 85 90 95

Glu Val Leu Cys Pro Pro Lys Tyr Leu Lys Leu Ser Pro Lys His Pro 100 105 110

Glu Ser Asn Thr Ala Gly Met Asp Ile Phe Ala Lys Phe Ser Ala Tyr 115 120 125

Ile Lys Asn Ser Arg Pro Glu Ala Asn Glu Ala Leu Glu Arg Gly Leu 130 135 140

Leu Lys Thr Leu Gln Lys Leu Asp Glu Tyr Leu Asn Ser Pro Leu Pro 145 150 155 160

Asp Glu Ile Asp Glu Asn Ser Met Glu Asp Ile Lys Phe Ser Thr Arg 165 170 175

Lys Phe Leu Asp Gly Asn Glu Met Thr Leu Ala Asp Cys Asn Leu Leu 180 185 190

Pro Lys Leu His Ile Val Lys Val Val Ala Lys Lys Tyr Arg Asn Phe 195 200 205

Asp Ile Pro Lys Glu Met Thr Gly Ile Trp Arg Tyr Leu Thr Asn Ala 210 215 220

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Phe Asn Val Thr Thr Val Asp Leu Lys Arg Lys Pro Ala Asp Leu His 50 55 60

Asn Leu Ala Pro Gly Thr His Pro Pro Phe Leu Thr Phe Asn Gly Asp 70 75 80

Val Lys Thr Asp Val Asn Lys Ile Glu Glu Phe Leu Glu Glu Thr Leu 85 90 95

Thr Pro Glu Lys Tyr Pro Lys Leu Ala Ala Lys His Arg Glu Ser Asn 100 105 110

Thr Ala Gly Ile Asp Ile Phe Ser Lys Phe Ser Ala Tyr Ile Lys Asn 115 120 125

Thr Lys Gln Gln Asn Asn Ala Ala Leu Glu Arg Gly Leu Thr Lys Ala 130 135 140

Leu Lys Lys Leu Asp Asp Tyr Leu Asn Thr Pro Leu Pro Glu Glu Ile 145 150 155 160

Asp Ala Asn Thr Cys Gly Glu Asp Lys Gly Ser Arg Arg Lys Phe Leu 165 170 175

Asp Gly Asp Glu Leu Thr Leu Ala Asp Cys Asn Leu Leu Pro Lys Leu 180 185 190

His Val Val Lys Ile Val Ala Lys Lys Tyr Arg Asn Tyr Asp Ile Pro 195 200 205

Ala Glu Met Thr Gly Leu Trp Arg Tyr Leu Lys Asn Ala Tyr Ala Arg 210 215 220

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Tyr Ala Asp Val Ala Lys Arg Leu Ser Arg Ser 245 250

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Leu Tyr Glu Ile Gly Val Ala Arg Val Glu Val Lys Thr Val Asn Val 50 55 60

Asn Ser Glu Ala Phe Lys Lys Asn Phe Leu Gly Ala Gln Pro Pro Ile 65 70 75 80

Met Ile Glu Glu Lys Glu Leu Thr Tyr Thr Asp Asn Arg Glu Ile 85 90 95

Glu Gly Arg Ile Phe His Leu Ala Lys Glu Phe Asn Val Pro Leu Phe 100 105 110

Glu Lys Asp Pro Ser Ala Glu Lys Arg Ile Glu Asn Leu Tyr Arg Asn 115 120 125

Phe Lys Leu Phe Leu Arg Ala Lys Val Glu Phe Asp Lys Gly Lys Lys 130 135 140

Glu Pro Ser Arg Val Glu Asp Leu Pro Ala Gln Ile Lys Val His Tyr 145 150 155 160

Asn Arg Val Cys Glu Gln Leu Ser Asn Ile Asp Gln Leu Leu Ser Glu 165 170 175

Arg Lys Ser Arg Tyr Leu Leu Gly Asn Ser Met Thr Glu Tyr Asp Cys 180 185 190

Glu Leu Met Pro Arg Leu His His Ile Arg Ile Ile Gly Leu Ser Leu 195 200 205

Leu Gly Phe Asp Ile Pro His Asn Phe Thr His Leu Trp Ala Tyr Ile
210 215 220

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Gln Asp Ile Ile His His Tyr Lys Glu Gln Met Asn Leu Phe Thr Asn
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Gln Arg Glu Thr Leu Gln Ser Pro Thr Lys Thr His Thr Ile Pro Glu
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